

## ALGEBRA 2: FINAL EXAM REVIEW 2012-2013 1<sup>ST</sup> SEMESTER

1. Simplify the expression:

$$= (-7x - 3x^2 + 7) + (-5x^2 + 7 + 3x)$$

$$= \frac{8x - 56x^2}{8x}$$

$$= \frac{4x^2y^2 - 4x^2y - 32x^2y^2}{4x^2y^2}$$

$$= -5x^2y^2(4x - 2x^2y^2 + y)$$

2. Multiply two binomials:

$$= (4x - 1)(3x - 7)$$

$$= (3x - 2y)^2$$

$$= 8x(2x - 1)^2$$

3. Polynomial Long Division:

$$= \text{Divide } 3x^2 + x^2 + 9x^2 + 2x - 3 \text{ by } x^2 + 2$$

4. Factor the following polynomials:

$$= x^2 + 7x + 6$$

$$= 2x^2 + 7x + 3$$

$$= x^2 - 21$$

5. Simplify:  $\frac{x^2 - 64}{x^2 - 8x + 8}$

6. In lowest terms, the quotient of  $\frac{x^2 + 8x + 16}{x - 3} \div \frac{x^2 - 16}{x + 3}$  is:

7. Adding & Subtracting Rational Expressions:

$$= \frac{6x}{y^2z^2} + \frac{7}{y^2z^2}$$

$$= \frac{5}{x^2 - 10x + 16} - \frac{6}{x - 2}$$

# Algebra 2 Semester Exam Review Answers

**Michael Brown**



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**Final Exam Review: MAT 104 & MAT 105 (John Jay College)** A. A. Frempong, *CliffsStudySolver Algebra II* Mary Jane Sterling, 2007-05-21 The CliffsStudySolver workbooks combine 20 percent review material with 80 percent practice problems and the answers to help make your lessons stick CliffsStudySolver Algebra II is for students who want to reinforce their knowledge with a learn by doing approach Inside you ll get the practice you need to factor and solve equations with handy tools such as Straightforward concise reviews of every topic Practice problems in every chapter with explanations and solutions A diagnostic pretest to assess your current skills A full length exam that adapts to your skill level Beginning with the rules for exponents and operations involving polynomials this workbook ventures into quadratic equations function transformations rational root theorem and more You ll explore factoring by grouping graphing complex numbers and hyperbola plus details about Solving exponential and logarithmic equations Using a graphing calculator to graph lines and polynomials Dealing with story problems using systems of equations Performing scalar and matrix multiplication Factoring binomials trinomials and other polynomials Practice makes perfect and whether you re taking lessons or teaching yourself CliffsStudySolver guides can help you make the grade *Resources in Education* ,1980

**Algebra** William G. McCallum, Eric Connally, Deborah Hughes-Hallett, 2015-02-13 Algebra Form and Function was designed based on the fundamental goal for a student to foster understanding of algebraic structure that is an understanding of how the arrangements of symbols allows us to predict for example the behavior of a function or the number of solutions to an equation Mastering algebraic structure enables students to read algebraic expressions and equations in real life contexts not just manipulate them and to choose which form or which operation will best suit the context It facilitates being able to translate back and forth between symbolic graphical numerical and verbal representations By balancing practice in manipulation and opportunities to see the big picture Algebra Form and Function offers a way for teachers to help students achieve real mastery of algebra

**Directory of Distance Learning Opportunities** Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154

institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation *Nursing School Entrance Exam Review* William H. Brown, Frederick A. Bettelheim, Jerry March, 2004-04 **Resources in Education**, 1990 The Mathematics Teacher, 2005 **Bulletin of the University of Oregon**, 1912 *University Extension and Commonwealth Service* University of Oregon, Joseph Schafer, 1912 **Sm Intermediate Algebra Irm** Jay Lehmann, 2000 **Paperbound Books in Print**, 1966 El-Hi Textbooks in Print, 1970 Includes related teaching materials *Biology* Edward C. Gruber, 1963 *Pre-Algebra: an Integrated Technology Transition to Algebra and Geometry Student Edition* McGraw Hill, 2000-05-30 Glencoe Pre Algebra An Integrated Transition to Algebra and Geometry perfectly blends skill and concept development with the applications connections and critical thinking your students need to understand and apply algebra and geometry **InCider**, 1990-07 Adjunct Support Manual John Hornsby, Terry McGinnis, Margaret Lial, 2003-10 Playground and Recreation Director's Handbook Arco Publishing Company, 1964 **Intermediate Algebra** Denny Burzynski, Wade Ellis, 1989

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